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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/527,440 03/17/2000		3/17/2000	Hiroki Nakae	HIRA.0003	3095
38327	7590 05/26/2004			EXAMINER	
REED SMI			CLOW, LORI A		
3110 FAIRV FALLS CHU		K DRIVE, SUITE 22042	ART UNIT	PAPER NUMBER	
THEE OF				1631	
				DATE MAILED 05/06/2004	

DATE MAILED: 05/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/527,440	NAKAE ET AL.					
Office Action Summary	Examiner	Art Unit					
	Lori A. Clow, Ph.D.	1631					
The MAILING DATE of this communicati Period for Reply	on appears on the cover sheet wit	th the correspondence address					
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA* - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica* - If the period for reply specified above is less than thirty (30) day - If NO period for reply is specified above, the maximum statutor - Failure to reply within the set or extended period for reply will, be any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	FION. CFR 1.136(a). In no event, however, may a restion. ys, a reply within the statutory minimum of thirty y period will apply and will expire SIX (6) MONT by statute, cause the application to become ABA	eply be timely filed (30) days will be considered timely. IHS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed or	n 16 March 2004.						
	This action is non-final.						
/-	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) 1-4 and 30-37 is/are pending in	Claim(s) <u>1-4 and 30-37</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-4 and 30-37</u> is/are rejected.	· · ——						
7) Claim(s) is/are objected to.							
•	Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Ex	kaminer.						
	The specification is objected to by the Examiner. The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International * See the attached detailed Office action for	cuments have been received. cuments have been received in A he priority documents have been Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) ☐ Interview S	summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-	948) Paper No(s	s)/Mail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date		nformal Patent Application (PTO-152) —·					

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DETAILED ACTION

Applicants' arguments, filed 16 March 2004, have been fully considered. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

Claims 1-4 and 30-37 are currently pending.

Double Patenting

Claims 1-4 and 30-37 are provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 1-12 in copending Application No. 10/223,374. This is a provisional double patenting rejection since the conflicting claims have not in fact been patented.

Claims 1-12 are identical in scope to claims 1-4 and 30-37 of the instant application.

Claim Objections

Claims 2, 4, 31, and 32 are objected to for the follow informalities:

Claim 2 recites "plurality of primer pairs meeting certain selection conditions from the designed primer pairs". To be in accordance with proper English grammar, the claim should appropriately read: "plurality of primer pairs from the designed primer pairs meeting certain selection conditions. Appropriate correction is requested.

Claims 4 and 32 recite "primer of designed primer pairs". The claims should read "primer of a designed primer pair". Appropriate correction is requested.

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Claim 31 recites "a GC content, a range of melting temperature". The claim should read "a GC content **and** a range of melting temperature". Appropriate correction is requested.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-4 and 30-37 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1, 4, and 34 recite "corresponding primer pair". However, it is unclear what is meant by "corresponding". Do the primer pairs somehow relate to one another in sequence? It is unclear how primers from different exons can correspond to one another. Clarification is requested.

Claims 35-37 recite "system capable of evaluating each designed primer". It is unclear for what the primer is being evaluated? Is the primer evaluated for a certain specificity? Further, what is meant by specificity checks in claim 37? Clarification is requested.

Claim 36 recites "undesirable sequence". What constitutes an undesirable sequence? Is it a repeat sequence or some other sequence? Clarification is requested.

Claim 37 is also unclear because the amplification region contains an exact sequence as the primer but is positioned elsewhere in the DNA. It is unclear what is meant by this limitation. How can the region of amplification be somewhere else in the DNA if the primer is specific for that region? Clarification is requested.

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No claims are allowed.

Inquiries

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993) (See 37 CFR § 1.6(d)). The CM1 Fax Center number is either (703) 308-4242, or (703) 308-4028.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lori A. Clow, Ph.D., whose telephone number is (571) 272-0715. The examiner can normally be reached on Monday-Friday from 10 am to 6:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael P. Woodward, Ph.D., can be reached on (571) 272-0722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Legal Instrument Examiner, Tina Plunkett, whose telephone number is (703) 305-3524, or to the Technical Center receptionist whose telephone number is (571) 272-0549.

MARJORIE MORAN PATENT EXAMINER

: Ta you a. foran

May 18, 2004

Lori A. Clow, Ph.D. Art Unit 1631